



#### NOTE:

THE WALL SECTIONS SHOWN ARE ILLUSTRATIVE IN NATURE AND ARE REPRESENTATIVE OF SOME COMMON CONSTRUCTION PRACTICES. OTHER SYSTEMS MEETING THE DESIGN OBJECTIVES ARE ACCEPTABLE. THE DESIGNER IS RESPONSIBLE FOR TECHNICAL DESIGN OF THE BUILDING ENVELOPE.

#### FIRE PROTECTION OBJECTIVES

COMPLY WITH THE CURRENT CRITERIA CONTAINED IN THE DA "ARCHITECTURAL AND ENGINEERING INSTRUCTIONS, DESIGN CRITERIA", THE NATIONAL FIRE CODES AS PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), MILITARY HANDBOOK 1008, THE UNIFORM BUILDING CODE (UBC), ER 1110-1-260 "FIRE PROTECTION POLICY", MACOM CRITERIA AND THE USACE DESIGN FOA CRITERIA.

DUE TO THE NATURE AND VOLUME OF THE USERS (YOUTH) AND MINIMUM STAFF AVAILABILITY, AN AUTOMATIC SPRINKLER SYSTEM IS MANDATORY THROUGHOUT THE BUILDING. THESE FACILITIES FALL INTO TWO MAJOR OCCUPANCIES AS DEFINED BY NFPA 101. THEY ARE EDUCATIONAL AND ASSEMBLY (ANY SPACES SUCH AS THE LARGE MULTIPURPOSE ROOM WHERE THE OCCUPANT LOAD EXCEEDS 50). OCCUPANT LOADS WERE DETERMINED BY ASSUMING 7 SQUARE FEET PER PERSON IN THE LARGE AND SMALL MULTIPURPOSE ROOM, AND 15 SQUARE FEET PER PERSON IN THE SNACK AREA, GAME ROOM, LOUNGES AND PROJECT ROOM. THE DESIGNER MUST CAREFULLY STUDY THE USER'S INTENDED USE OF THESE ROOMS TO VERIFY THAT THE OCCUPANT LOADS ASSUMED IN THIS DEFINITIVE DESIGN ARE APPROPRIATE. IF NOT, THE NUMBER OF DOORS AND THEIR DIRECTION OF SWING MAY REQUIRE ADJUSTMENT. BUILDING CONSTRUCTION FOR YC'S MUST MEET THE REQUIREMENTS FOR TYPE II - ONE HOUR AS DEFINED BY THE U.B.C. NO SEPARATIONS EXCEEDING ONE HOUR ARE REQUIRED BASED ON A 40'-0" MINIMUM CLEAR YARD ON ALL SIDES OF THE BUILDING AND INSTALLATION OF AN AUTOMATIC SPRINKLER SYSTEM. ONE HOUR RATED WALLS ARE REQUIRED AROUND ALL STORAGE ROOMS, JANITOR'S CLOSETS, MECHANICAL ROOMS AND ROUTES OF EGRESS. DOORS MUST HAVE A MINIMUM 20 MINUTE RATING AND GLASS AREAS MUST CONFORM TO NFPA 80 ALONG ROUTES OF EGRESS.

STRATEGICALLY LOCATE COMBINATION AUDIBLE AND VISUAL ALARMS THROUGHOUT THE FACILITY. COORDINATE ALARM TRANSMISSION EQUIPMENT TO BE UTILIZED WITH THE USER. ENSURE THAT THE COMMUNICATIONS SYSTEMS PROVIDE THE NECESSARY TRANSMISSION LINES.

SEE "ARCHITECTURAL DESIGN OBJECTIVES", "MECHANICAL DESIGN OBJECTIVES" AND "ELECTRICAL DESIGN OBJECTIVES" FOR RELATED REQUIREMENTS.

#### SECURITY OBJECTIVES

THE LEVEL OF THREAT SHALL BE AS DEFINED BY THE USER INSTALLATION/MACOM, AND SHALL BE INCLUDED IN THE DESIGN CRITERIA. USE THE "SECURITY ENGINEERING MANUAL" AS THE GUIDE IN SELECTING THE SECURITY MEASURES REQUIRED TO RESIST THE PRESCRIBED THREAT. IF THE CRITERIA STATES A "NO THREAT" FOR THE FACILITY, ENSURE THAT THE MINIMUM PROTECTIVE MEASURES LISTED IN THE "SECURITY ENGINEERING MANUAL" ARE INCORPORATED INTO THE DESIGN. THE "SECURITY ENGINEERING MANUAL" MAY BE OBTAINED BY CONTACTING THE OMAHA DISTRICT CORPS OF ENGINEERS, ATTN: CEMRO-ED-ST.

COORDINATE WITH THE USER TO ENSURE THAT ROOMS WITH LAY-IN CEILINGS CONTAINING VALUABLES AND PILFERABLE ITEMS ARE SECURED BY EXTENDING THE PERIMETER WALLS OF THE ROOM TO THE DECK ABOVE. HEAVY GAGE WIRE MESH MAY BE USED FOR THESE EXTENSIONS INSTEAD OF SOLID WALLS.

#### DEFINITIVE DRAWINGS SOURCE

TO OBTAIN COPIES OF THESE DEFINITIVE DRAWINGS, CONTACT THE U.S. ARMY ENGINEER DIVISION, HUNTSVILLE, ATTN: CEHND-ES-1, P.O. BOX 1600, HUNTSVILLE, AL 35807-4301. FOR INFORMATION REGARDING THE DEFINITIVE DRAWINGS DESIGN, CONTACT THE LITTLE ROCK DISTRICT CORPS OF ENGINEERS, ATTN: CESWL-ED-DA, P.O. BOX 867, LITTLE ROCK, AR 72203-0867 OR PHONE (501) 378-5664/5665.

#### VALUE ENGINEERING

A VALUE ENGINEERING STUDY HAS BEEN PERFORMED FOR THE YC STANDARD DEFINITIVE DESIGNS. THE STUDY WAS CONDUCTED BY THE OFFICE OF CHIEF OF ENGINEERS VALUE ENGINEERING STUDY TEAM (OVEST) AND IS DATED JULY 1988. ALL SEVEN PROPOSALS OF THIS STUDY HAVE BEEN INCORPORATED INTO THE DESIGNS.

THIS DRAWING HAS BEEN REDUCED TO ONE-HALF THE ORIGINAL SCALE

DEPARTMENT OF THE ARMY LITTLE ROCK DISTRICT, CORPS OF ENGINEERS LITTLE ROCK, ARKANSAS		
Designed by BH	DEPARTMENT OF THE ARMY FACILITIES STANDARDIZATION PROGRAM DEFINITIVE DESIGN  YOUTH CENTER STANDARD DEFINITIVE DESIGNS WALL SECTIONS	
Drawn by DDM		
Checked by MAT		
Reviewed by EYL		
Approved by JLD	Scale AS SHOWN	Sheet 11 OF 11
	Date JANUARY 1989	